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1730708/03
U.S. PATENT & TRADEMARK OFFICE
PTO/SB/05 (05-03)

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No. 02-6052

First Inventor Victor Suen

Title APPARATUS AND METHODS FOR IMPROVED INPUT/OUTPUT CELLS

Express Mail Label No. EL 820325949 US

| | | | |
|--|--|---|--|
| APPLICATION ELEMENTS | | ADDRESS TO: | |
| See MPEP chapter 600 concerning utility patent application contents. | | Commissioner for Patents Mail Stop Patent Application P.O. Box 1450 Alexandria VA 22313-1450 | |
| 1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <i>(Submit an original and a duplicate for fee processing)</i> | | 7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) | |
| 2. <input type="checkbox"/> Applicant claims small entity status. <i>See 37 CFR 1.27.</i> | | 8. Nucleotide and/or Amino Acid Sequence Submission <i>(if applicable, all necessary)</i> | |
| 3. <input checked="" type="checkbox"/> Specification [Total Pages 15] <i>(preferred arrangement set forth below)</i> <ul style="list-style-type: none"> - Descriptive title of the Invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (<i>if filed</i>) - Detailed Description - Claim(s) - Abstract of the Disclosure | | a. <input type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: <ul style="list-style-type: none"> i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> paper c. <input type="checkbox"/> Statements verifying identity of above copies | |
| 4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C.113) [Total Sheets 2] | | 9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s)) | |
| 5. Oath or Declaration [Total Sheets 3] | | 10. <input type="checkbox"/> 37 C.F.R. 3.73(b) Statement <input checked="" type="checkbox"/> Power of <i>(when there is an assignee)</i> Attorney | |
| a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63 (d)) <i>(for a continuation/divisional with Box 18 completed)</i> | | 11. <input type="checkbox"/> English Translation Document (<i>if applicable</i>) | |
| i. <input type="checkbox"/> DELETION OF INVENTOR(S) <i>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</i> | | 12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations | |
| 6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76 | | 13. <input type="checkbox"/> Preliminary Amendment 14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i> 15. <input type="checkbox"/> Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i> 16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. <input checked="" type="checkbox"/> Other: <u>Certificate of Mailing; Additional Return Postcard</u> | |

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

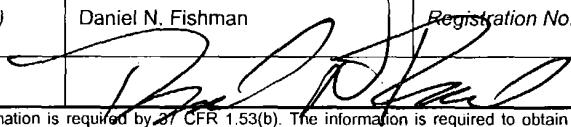
 Continuation Divisional Continuation-in-part (CIP) of prior application No: _____ / _____

Prior application information: Examiner _____ Art Unit: _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS
 Customer Number or Bar Code Label 24319 or Correspondence address below
 (Insert Customer No. or Attach bar code label here)

| | | | | | |
|---------|-----------|--|----------|--|--|
| Name | | | | | |
| Address | | | | | |
| City | State | | Zip Code | | |
| Country | Telephone | | Fax | | |

| | | | |
|-------------------|---|-----------------------------------|-----------------|
| Name (Print/Type) | Daniel N. Fishman | Registration No. (Attorney/Agent) | 35,512 |
| Signature |  | | Date 8 JUL 2003 |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 874)

Complete if Known

| | |
|----------------------|-------------|
| Application Number | |
| Filing Date | Herewith |
| First Named Inventor | Victor Suen |
| Examiner Name | |
| Art Unit | |
| Attorney Docket No. | 02-6052 |

METHOD OF PAYMENT (check all that apply)

 Check Credit card Money Other None
Order
 Deposit Account:

Deposit Account Number 12-2252

Deposit Account Name LSI Logic Corporation

The Director is authorized to: (check all that apply)

 Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) during the pendency of this application
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION (continued)

3. ADDITIONAL FEES

| Large Entity | Small Entity | Fee Code | Fee (\$) | Fee Code | Fee (\$) | Fee Description | Fee Paid |
|--------------|--------------|---------------------------|----------|----------|----------|--|----------|
| | | 1051 | 130 | 2051 | 65 | Surcharge - late filing fee or oath | |
| | | 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or cover sheet | |
| | | 1053 | 130 | 1053 | 130 | Non-English specification | |
| | | 1812 | 2,520 | 1812 | 2,520 | For filing a request for reexamination | |
| | | 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action | |
| | | 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action | |
| | | 1251 | 110 | 2251 | 55 | Extension for reply within first month | |
| | | 1252 | 410 | 2252 | 205 | Extension for reply within second month | |
| | | 1253 | 930 | 2253 | 465 | Extension for reply within third month | |
| | | 1254 | 1,450 | 2254 | 725 | Extension for reply within fourth month | |
| | | 1255 | 1,970 | 2255 | 985 | Extension for reply within fifth month | |
| | | 1401 | 320 | 2401 | 160 | Notice of Appeal | |
| | | 1402 | 320 | 2402 | 160 | Filing a brief in support of an appeal | |
| | | 1403 | 280 | 2403 | 140 | Request for oral hearing | |
| | | 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding | |
| | | 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable | |
| | | 1453 | 1,300 | 2453 | 650 | Petition to revive - unintentional | |
| | | 1501 | 1,300 | 2501 | 650 | Utility issue fee (or reissue) | |
| | | 1502 | 470 | 2502 | 235 | Design issue fee | |
| | | 1503 | 630 | 2503 | 315 | Plant issue fee | |
| | | 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | |
| | | 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17 (q) | |
| | | 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt | |
| | | 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | 40 |
| | | 1809 | 750 | 2809 | 375 | Filing a submission after final rejection (37 CFR § 1.129(a)) | |
| | | 1810 | 750 | 2810 | 375 | For each additional invention to be examined (37 CFR § 1.129(b)) | |
| | | 1801 | 750 | 2801 | 375 | Request for Continued Examination (RCE) | |
| | | 1802 | 900 | 1802 | 900 | Request for expedited examination of a design application | |
| | | Other fee (specify) _____ | | | | | |

*Reduced by Basic Filing Fee Paid

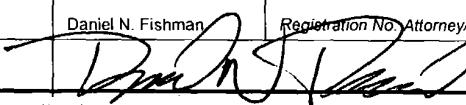
SUBTOTAL (3)

(\$ 40)

**or number previously paid, if greater; For Reissues, see above

SUBMITTED BY

Complete (if applicable)

| | | | | | |
|-------------------|---|---------------------------------|--------|------------|----------------|
| Name (Print/Type) | Daniel N. Fishman | Registration No. Attorney/Agent | 35,512 | Telephone | (720) 931-3000 |
| Signature |  | | Date | 8 JUL 2003 | |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Victor Suen et al.
Application No.: Not yet assigned
Filed: Herewith Group No.: Not yet assigned
Examiner: Not yet assigned

FOR: APPARATUS AND METHODS FOR IMPROVED INPUT/OUTPUT CELLS

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING
via EXPRESS MAIL

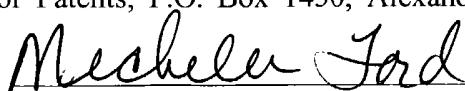
"Express Mail" labels number EL 820325949 US

Date of Deposit: July 8, 2003

I hereby state that the following *attached* papers

1. Utility Patent Application Transmittal (1 page)
2. Fee Transmittal in duplicate (2 pages)
3. Specification including Claims and Abstract (15 pages)
4. Figures (2 pages)
5. Declaration for Utility or Design Patent Application (3 pages)
6. Power of Attorney or Authorization of Agent (4 pages)
7. Recordation Form Cover Sheet Patents Only in duplicate (2 pages)
8. Assignment (1 page)
9. Certificate of Mailing (1 page)
10. Return Postcards (2)

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10, on the date indicated above and is addressed to: Mail Stop: Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Michelle Ford